

DERWENT-ACC-NO: 2002-427014

DERWENT-WEEK: 200508

COPYRIGHT 2006 DERWENT INFORMATION LTD

TITLE: Magnetic recording medium and magnetic recording  
apparatus

INVENTOR: FUJITA, E; INABA, N ; KOUDA, T ; MATSUNUMA, S ; YAMANAKA, H

PATENT-ASSIGNEE: HITACHI MAXELL KK[HITM]

PRIORITY-DATA: 2000JP-0341392 (November 9, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6846583 B2	January 25, 2005	N/A	000	G11B 005/66
WO 200239433 A1	May 16, 2002	J	078	G11B 005/65
AU 200212743 A	May 21, 2002	N/A	000	G11B 005/65
JP 2002208129 A	July 26, 2002	N/A	020	G11B 005/667
KR 2003038707 A	May 16, 2003	N/A	000	G11B 005/62
US <b>20030215675</b> A1	November 20, 2003	N/A	000	G11B 005/66
CN 1451159 A	October 22, 2003	N/A	000	G11B 005/65
JP 2002541671 X	March 18, 2004	N/A	000	G11B 005/64

DESIGNATED-STATES: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR  
CU CZ

DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI  
SK

SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW AT BE CH CY DE DK EA ES FI FR GB GH  
GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
US 6846583B2	Cont of	2001WO-JP09811	November 9, 2001
US 6846583B2	N/A	2003US-0356465	February 3, 2003
WO 200239433A1	N/A	2001WO-JP09811	November 9, 2001
AU 200212743A	N/A	2002AU-0012743	November 9, 2001
AU 200212743A	Based on	WO 200239433	N/A
JP2002208129A	N/A	2001JP-0301089	September 28, 2001
KR2003038707A	N/A	2003KR-0702384	February 18, 2003
US20030215675A1	Cont of	2001WO-JP09811	November 9, 2001
US20030215675A1	N/A	2003US-0356465	February 3, 2003
CN 1451159A	N/A	2001CN-0815036	November 9, 2001
JP2002541671X	N/A	2001WO-JP09811	November 9, 2001

JP2002541671X	N/A	2002JP-0541671	November 9, 2001
JP2002541671X	Based on	WO 200239433	N/A

INT-CL (IPC): B32B015/00, G11B005/02, G11B005/62, G11B005/64, G11B005/65, G11B005/66, G11B005/667, G11B005/70, G11B005/73, G11B005/738, G11B005/851, H01F010/10, H01F010/14, H01F010/16, H01F010/26, H01F010/30, H01J001/00

ABSTRACTED-PUB-NO: WO 200239433A

**BASIC-ABSTRACT:**

NOVELTY - A magnetic recording medium having a magnetic recording layer (63) made of an ordered alloy containing boron (B) and formed on a substrate (1) containing an amorphous component. A part of the boron in the ordered alloy is segregated at the grain boundaries, and consequently the magnetic interaction between magnetic particles can be reduced. Therefore small magnetic domains can be formed in the magnetic recording layer (63) and the noise can be reduced. The substrate heating temperature when forming the magnetic recording layer (63) can be low since the ordering temperature of the ordered alloy containing B is lower than those of ordered alloys not containing B, and therefore a glass substrate suitable for mass production can be used. The heat stability of the magnetic recording layer (63) is excellent since an ordered alloy of high magnetic anisotropy is used. Thus, a high-density recording magnetic recording medium having an excellent heat stability and exhibiting low noise is realized.

USE - None given.

CHOSEN-DRAWING: Dwg.1/13

TITLE-TERMS: MAGNETIC RECORD MEDIUM MAGNETIC RECORD APPARATUS

DERWENT-CLASS: L03 P73 T03 V02

CPI-CODES: L03-B05D;

EPI-CODES: T03-A01A; T03-A01B1X; T03-A01F; T03-A02A3A; T03-A06; V02-H02;

**SECONDARY-ACC-NO:**

CPI Secondary Accession Numbers: C2002-121175

Non-CPI Secondary Accession Numbers: N2002-335775